PERCENTAGES

PER   CENT

$$20\% = \frac{20}{100} = \frac{1}{5}$$

$$25\% = \frac{25}{100} = \frac{1}{4}$$

$$40\% = \frac{40}{100} = \frac{2}{5}$$

$$70\% = \frac{70}{100} = \frac{7}{10}$$

$$16\frac{2}{3}\% = \frac{50}{3}\% = \frac{1}{6}$$

$$14\frac{2}{7}\% = \frac{100}{7}\% = \frac{1}{7}$$

How to change the fraction into %

$$\frac{1}{5} \Rightarrow \frac{1}{5} \times 100 = 20\%$$

$$\frac{1}{4} \Rightarrow \frac{1}{4} \times 100 = 25\%$$

$$\frac{1}{6} \Rightarrow \frac{1}{6} \times 100 = \frac{50}{3} = 16\frac{2}{3}\%$$

$$\frac{1}{9} \Rightarrow \frac{1}{9} \times 100 = \frac{100}{9}\% = 11\frac{1}{9}\%$$

$\frac{1}{2} = 50\%$ $\frac{1}{11} = 9\frac{1}{11}\%$ $\frac{1}{40} = 2\frac{1}{2}\%$

$\frac{1}{3} = 33\frac{1}{3}\%$ $\frac{1}{12} = 8\frac{1}{3}\%$ $\frac{1}{50} = 2\%$

$\frac{1}{4} = 25\%$ $\frac{1}{13} = 7\frac{9}{13}\%$ $\frac{3}{8} = 37\frac{1}{2}\%$

$\frac{1}{5} = 20\%$ $\frac{1}{14} = 7\frac{1}{7}\%$ $\frac{5}{8} = 62\frac{1}{2}\%$

$\frac{1}{6} = 16\frac{2}{3}\%$ $\frac{1}{15} = 6\frac{2}{3}\%$ $\frac{4}{7} = 57\frac{1}{7}\%$

$\frac{1}{7} = 14\frac{2}{7}\%$ $\frac{1}{16} = 6\frac{1}{4}\%$ $\frac{5}{7} = 71\frac{3}{7}\%$

If I want to know the % value

of $\frac{5}{9}$ then go to $\frac{1}{9}$

Find the % value of $\frac{3}{8}$

Find the % value of $\frac{41}{6}$

$16\frac{2}{3}\% = \frac{1}{6}$ → 1 represents its % result

6 → 6 represent original number/value

INCREMENT/DECREMENT

If $37\frac{1}{2}$% of a number is added with itself then result becomes 1320. Find the original number.

If Goutam's height is 10% more than seema's height, by how much percent is seema's height less than of Goutam's?

A man had a certain amount with him. He spent 30% of that to buy an article and 10% of the remaining on transport, then he donated Rs. 60. If he is left with 1200. The amount he spent on transport is :

PRICE,CONSUMPTION,EXPENDITURE CONCEPTS

If food prices go up by 10% by how much should a man reduce his consumption so as not to increase his expenditure ?

A reduction of 20% in the Price of Rice enables a Purchase to obtain 8kg more Rice for Rs. 160. Then the Price Per kg before reduction was

A reduction of 20% in the Price of an orange enables a man to buy 10 oranges more for Rs 54. The reduced Price of apples Per dozen is

NET INCREASE CONCEPTS

If price of a book is first decreased by 20% and then increased by 25% the next change in the price of the book will be.

A number is increased by 20% and then it is decreased by 20%. Find the net increase or decrease percent?

INCOME,EXP,SAVINGS RELATED CONCEPTS

A man spents 75% of his income. His income increased by 20% and he increased his expenditure by $6\frac{2}{3}\%$. His savings will then be increased by.

The total income of A, B and C be Rs. 333. If they spends 80%, 85%, and 75%. respectively and the ratio of their savings be 7:6:9. Then find the income of B.

POPULATION RELATED CONCEPTS

If the annual increase in the population of a town is $6\frac{1}{4}\%$ and the present number of people is 4096. What will the population be in 3 years ?

If the population of a town is 64000 and its annual increase is 10% then its correct population at the end of 3 years will be.

Present population of a village is 67600. It has been increasing annually at the rate of 4%. What was the population of the village two years ago?

EXAMINATION RELATED CONCEPTS

In an examination the first student got 28% marks and failed by 12 marks. While in the same examination the second students got 30% marks and failed by 6 marks find the maximum marks in the examination and also find minimum pass marks.

VENN DIAGRAM CONCEPTS

In an examination 65% students failed in maths and 75% students failed in english while 52% students failed in both the subjects. If 48 students passed in both the subjects then find the total no. of students appeared in the examination

THE END